CLAIMS

1. An agglomerate comprising fine primary particles of an inorganic compound except for silica, the agglomerate satisfying the following expressions (a) to (e):

(a)
$$0.5 \le dp_{50} \le 20$$
 [µm]

(b)
$$0 \le \alpha \le 2.5$$
 [·]

(c)
$$30 \le Sw$$
 [m²/g]

(d)
$$20 \le St \le 150$$
 [MPa] and

(e)
$$200 \le \text{Sta} \le 600 \text{ [MPa]}$$
,

wherein

 dp_{50} : the average particle diameter [µm] of the agglomerate measured by Microtrac-FRA, a laser analysis type particle size distribution measurement apparatus,

 α : the value calculated by dividing the difference between the particle diameter d_{90} of cumulative 90% minus sieve particles of the agglomerate and the particle diameter d_{10} of cumulative 10% minus sieve particles of the agglomerate calculated by the Microtrac-FRA, a laser analysis type particle size distribution measurement apparatus by the average particle diameter dp_{50} according to the following equation:

$$\alpha = (d_{90} - d_{10})/dp_{50}$$

 d_{90} : the particle diameter of cumulative 90% minus sieve particles of the agglomerate measured by the Microtrac-FRA, a laser analysis type particle size distribution measurement apparatus,

 d_{10} : the particle diameter of cumulative 10% minus sieve particles of the agglomerate measured by the Microtrac-FRA, a laser analysis type particle size distribution measurement apparatus,

Sw: the BET specific surface area of the agglomerate $[m^2/g]$,

St: the tensile strength [MPa] required to break the agglomerate with the particle diameter $4\,\mu$ m, measured by a micro compression testing machine manufactured by Shimadzu Corporation, and

Sta: the tensile strength [MPa] required to break 30% of the particle diameter of the agglomerate with the particle diameter $4\,\mu$ m, measured by a micro compression testing machine manufactured by Shimadzu Corporation.

2. The agglomerate according to claim 1, wherein the agglomerate satisfies the solidified apparent density satisfies the following expression (f):

(f) $0.2 \le \rho bp \le 0.8$ [g/cm³], wherein

ρbp: the solidified apparent density [g/cm³] of the agglomerate powder measured by a powder tester manufactured by Hosokawa Micron Co., Ltd..

3. The agglomerate according to claim 1 or 2, wherein the

agglomerate is surface-treated with at least one kind selected from aliphatic acids, alicyclic carboxylic acids, aromatic carboxylic acids, their sulfonic acids and resin acids, their metal salts, ammonium salts, amine salts, esters; aliphatic, alicyclic, and aromatic sulfonic acids; coupling agents; silicone oils; paraffin; copolymers of α,β -monoethylenically unsaturated carboxylic acids and monomers copolymerizable with α,β -monoethylenically unsaturated carboxylic acids, their metal salts ammonium salts, amine salts, esters; phosphoric acid esters; and industrial soaps.

- 4. The agglomerate according to any one of claims 1 to 3, wherein the agglomerate comprises calcium carbonate.
- 5. A resin composition containing a resin mixed with the agglomerate according to any one of claims 1 to 4.
- 6. The resin composition according to claim 5, wherein the resin is selected from polyolefin resins, polyester resins, polyamide resins, polyvinyl chloride resins, and biodegradable resins.
- 7. The resin composition according to claim 5 or 6, wherein the resin composition is in the form of a film, a sheet or a fiber.